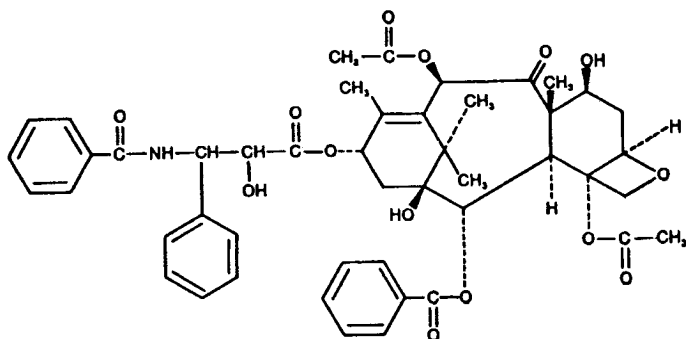


TAXOL

NSC - 125973



Chemical Name: β -(Benzoylamino)- α -hydroxybenzenepropanoic acid, 6,12b-bis(acetyloxy)-12-(benzyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1*H*-cyclodeca[3,4]benz[1,2-*b*]oxet-9-yl ester, [2a*R*-[2a α ,4 β ,4a β ,6 β ,9 α (α *R**, β *S**),11 α ,12 α ,12a α ,12b α]]-

CAS Registry Number: 33069-62-4

Molecular Formula: C₄₇H₅₁NO₁₄

M.W.: 853.9

Qualitative Solubility:

Highly insoluble in water and aqueous solvents.
Compound dissolves in methanol, ethanol, benzene, chloroform, methylene chloride, and tetrahydrofuran.

Stability:

Bulk:

Bulk samples stored at room temperature for 30 days showed no decomposition as indicated by UV absorption, TLC, or HPLC. The bulk compound stored at 60 °C for three weeks also showed no decomposition. After four weeks very minor decomposition was detected by TLC.

Ultraviolet Absorption:

(MeOH)

$$\lambda_{\max} = 227 \pm 2\text{nm}$$

$$\epsilon = 28,500 - 30,900$$

High Performance Liquid Chromatography:

Column: IBM ODS, 5 μm , 4.6 x 250 mm

Mobile Phase: 63% MeOH/37% water

Flow Rate: 1.0 mL/min

Detection: UV at 230 nm

Sample Preparation: Dissolve ≈ 6 mg sample in 10 mL methanol. Mix 1 mL of this solution with 1 mL of internal standard solution.

Internal Standard: 20 mg Paraben in 25 mL methanol

Retention Volume: 19.3 mL (NSC - 125973)
7.7 mL (I.S.)

Optical Rotation:

(c = 1, MeOH)

$$[\alpha]_D^{20} = -53 \pm 2^\circ$$

Toxicity Data:

Rat(ip): LD₅₀: 32530 µg/kg

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Mouse(ip): LD₅₀ 128 mg/kg

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Dog(iv): LD₅₀: 15 mg/kg

National Technical Information Service, PB83-170969